

Amendments to the Claims:

The following claims will replace all prior versions of the claims in this application (in the unlikely event that no claims follow herein, the previously pending claims will remain):

1. (Currently Amended) A device for controlling fluid using surface tension of the fluid, comprising:

at least one storage chamber to which a fluid is injected and stored;
at least one reaction chamber in which a predetermined reaction occurs on the fluid;
at least one exhaust chamber in which the used fluid is exhausted;
at least one side connecting channel which connects at least two stop valves; wherein the stop valves stop the flow of the fluid using the surface tension of the fluid and the flow through the connecting channel opens the stop valve;

at least one flow delay part which is formed within said connecting channel and delays flow of the fluid by the surface tension of the fluid; and

wherein said fluid moves from said storage chamber to said reaction chamber and exhaust chamber by means of surface tension while replacement of the fluid with a different ~~exchange of the~~ fluid naturally occurs in said reaction chamber.

2. (Previously Presented) The device as claimed in claim 1, wherein said at least one storage chamber includes a fluid inlet into which the fluid can be injected

3. (Previously Presented) The device as claimed in claim 1, wherein said at least one side connecting channel adjusts the surface tension by increasing or decreasing a width of the path, or by performing surface modification or temperature change so that the fluid reliably moves.

4. (Previously Presented) The device as claimed in claim 1, wherein said stop valves adjust the surface tension by having a hydrophilic or hydrophobic property on a channel surface of the valve, deforming the channel geometry, or changing a temperature of the channel surface of the valve.

5. (Previously Presented) The device as claimed in claim 1, wherein said at least one flow delay part adjusts the surface tension by having a hydrophilic or hydrophobic property

on a channel surface of the valve, deforming the channel geometry, or changing a temperature of the channel surface of the valve.

6. (Original) The device as claimed in claim 1, wherein said at least one exhaust chamber includes a structure which keeps the flow of the fluid smooth by increasing the surface tension and makes the preceding portion of the fluid uniform when the fluid flows to prevent fine air bubbles from being occurred.

7. (Previously Presented) The device as claimed in claim 1, wherein said at least one side connecting channel includes an isolation threshold to prevent reactants among a plurality of said reaction chambers from diffusing.

8. (Original) The device as claimed in claim 1, wherein said at least one reaction chamber has at least one electrode on the wall of the reaction chamber for optical and electrochemical detection.

9. (Previously Presented) A device for controlling fluid using surface tension of the fluid, comprising:

at least two devices according to claim 1 connected in series.

10. (Previously Presented) A device for controlling fluid using surface tension of the fluid, comprising:

at least two devices according to claim 1 connected in parallel.

11. (Previously Presented) The device of claim 1, further comprising a filter.

12. (Previously Presented) The device of claim 1, further comprising at least one sample preparation chamber.

13. (Previously Presented) The device of claim 1, further comprising at least one air vent.

14. (Previously Presented) A drug delivery device comprising the device of claim 1.

15. (Previously Presented) A biochip comprising the device of claim 1.
16. (Previously Presented) A micro biological/chemical reactor comprising the device of claim 1.
17. (Cancelled)